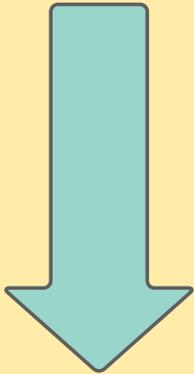


System Engineering Analysis (SEA) Documents

Sequential Driven Documents

Detail in Document

High Level



In Depth

Technology/SEA Assessment:

- Determines if an SEA is required on a project based on the presence of technology
- Assists in service package identification
- Determines if previously prepared documents from other projects can be leveraged

Alternative Analysis:

- Only required for the technology aspect of a project
- Documents all options for technology to solve project purpose and objective
- Balances construction and maintenance costs
- Documents why an alternative was selected

Concept of Operations:

- High level summary of the vision of the proposed technology system
- Identifies stakeholders and users and defines roles and responsibilities
- Documents all discussed wants and needs of stakeholders and users and documents which ones will be included in the project
- Creates the Validation Plan requirements based on selected wants/needs. Validation will be complete at the end of design to document if/how each want/need was fulfilled on the project.

System Functional Requirements:

- Documents how the project intends to implement the functional requirements established in the applicable service package(s)
- Specifies any project specific functional requirements

High Level System Design:

- Creates a visual showing how all of the different elements communicate and what is communicated between them

Detailed Level System Design:

- Identifies if additional design of the system is needed which may include: networking, hardware, or software development

Testing and Integration:

- Documents how the installed system will be stood up and how it will then be tested per device type
- Documents integration procedures

Independent Documents

Additional Agreements:

- Compiles all completed agreements

Standard Operating Procedures (SOP):

- Documents step by step instructions on how to operate the proposed system

Maintenance Plan:

- Documents what routine maintenance is required
- Defines roles and responsibilities of routine maintenance
- Documents financially how the system will be maintained
- Identifies the utilities related to the project
- Used for asset management

Validation Plan:

- Completed any time after the Concept of Operations is complete
- Documenting how the design fulfills all wants/needs established in the Concept of Operations
- Documents an changes that occurred throughout design